

1. A method comprising the steps of:

generating a radio frequency signal;

feeding said frequency signal to a conductor; said conductor being a conductive array existing within a structure;

creating a quasi-static non-propagating electromagnetic field within said structure, said electromagnetic field extending from said conductor in a manner such that said structure forms a cavity resonator; and

using said electromagnetic field to convey said radio frequency signal to a receiver generally located within said structure.

Please delete claim 4.

Please delete claim 5.

Please delete claim 12.

New Claims 14 and 15 have been added as follows:

14. An electromagnetic field system, comprising:

a structure including an electrically conductive grid array having a grid opening size; and

means for generating a quasi-static non-propagating electromagnetic field within said structure by feeding a frequency signal into said electrically conductive grid array;

wherein the frequency of said frequency signal is selected such that the dimension of said grid opening size is small relative to the wavelength of said frequency signal.